

MEETING SUMMARY

Project name OU3 Remedial Action, PVGCS Site, Washington New Jersey

Project no.

Subject Construction Kick Off Meeting with USEPA and USACE

Meeting date 11/15/19

Location Washington Borough Hall, Washington, New Jersey

Meeting no. 1

Called by Bruce Kennington

Summary by James Cavotta

Participants James Cavotta, Ramboll
Chad Crownover, TRS
Sean Fournier, TRS
Erin Hauber, USACE
Gorm Heron, TRS
Chris Thomas, TRS
Bruce Kennington, Ramboll
Luis Hidalgo, Rio Tinto
Michelle Granger, USEPA
Patrick Nejand, USACE
Neil Kolb, USACE
Richard Gajdek, USACE
Scott Tarmann, Ramboll

Date: November 23, 2019

Copy to Stan Popelar, Ramboll
Michael Eddings, Ramboll
Doug Burge, Ramboll
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Chris Blundy, TRS Group

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Meeting Summary

- OU3 kickoff meeting commenced at 10:00am
- Following introductions, Ramboll provided an overview of the meeting agenda along with general topics for discussion.
- Ramboll presented OU3 RA project organization as presented in the Draft Remedial Action Work Plan (RAWP) along with lines of communication for the project.
- USACE representatives inquired about communication procedures with Albéa, the Owner Settling Defendant (e.g., re: drilling activities, communication of indoor air monitoring results, ISTR system operations, etc.)
 - Ramboll explained that periodic update meetings were planned with Albéa over the course of the drilling and ISTR construction and that monitoring results of these construction activities (PID field screening, dust and diesel exhaust monitoring) would be reviewed

in these meetings. Further, that during ISTR system operation, indoor air monitoring results would also be shared with Albéa management for communication to facility workers, as appropriate. Additionally, and as provided in the Draft RAWP, the results of indoor air monitoring would be available and USEPA would have access to the Vapor Safe data results via an online cloud portal.

- The Emergency Response Plan from the Draft RAWP was presented and discussed.
 - The plant/facility contacts, emergency contacts at plant/facility, emergency procedures and response plan with the Albéa facility were reviewed.
 - The subject of spill notification and reporting was discussed. Ramboll described the spill response plan and procedures in place on the project and included in the Draft RAWP.
 - Fuel storage and transportation plans and procedures were reviewed.
- Planned working hours were reviewed as follows:
 - Work hours will be 2 shifts, Day shift (1st shift) from 7 AM to 3 PM, and Evening shift (2nd shift) from 3 PM -11 PM.
 - Due to the noise level during operation, drilling activities are planned to be performed over the course of the project on the evening shift (2nd shift) inside the Former Molding Room (FMR).
- USEPA inquired about a noise attenuation barrier where no wall presently exists at the north west end of the FMR. Rio Tinto reported that applications have been submitted to the local permit authorities to enable erection of a wall as needed to attenuate noise generated during drilling. Presently, noise levels will be monitored and recommendations for hearing protection to be worn by Albéa plant facility personnel during initial drilling operations with one to two drill rigs.
- Ramboll is working to accommodate Albéa workers and to protect them from noise and potential vapor / dust exposure from construction and ISTR operations.
- Maintenance of an access corridor from south to north through the FMR as necessary to provide a route for Albéa transport of equipment from their "Motor Room" into the plant for maintenance and also to provide access following ISTR treatment to enable drill rig access for "hot" soil boring for collection of performance verification soil samples was discussed.
- Discussed and presented the project time schedule presented in Addendum No. 1 to the RAWP RAWP.
 - Schedule organized around installing and operating new heater well groupings (i.e., Group A, Group B and Group C heaters) in sequential fashion. Drilling schedule to be performed with 10 days on-4 days off work schedule.
 - Drilling sequence to begin with installing the Group A heaters first due to space limitations in FMR and timing for removal of the overhead vent duct and sprinkler line underneath duct.
 - Discussed HVAC modifications to FMR to control room temperature during drilling.
 - Discussed sequencing of drilling operations. Plan is to begin drilling operations at HF 12, 13, 14 and move along east wall to complete remaining heaters in group A.
- Discussion of RA Addendum submittals (Addendum No. 1 and Addendum No. 2).
 - Presented and discussed changes to RAWP Fig 7 to show locations of post-treatment confirmation soil borings.
 - Identified need to establish indoor air (IA) vapor action level for triggering notification to Agency and Albéa during monitoring of Vapor-Safe data.
 - Ramboll will seek Agency concurrent with proposed action level and alarm concentration settings.

- IA monitoring using Vapor-Safe system to start in advance of beginning ISTR operation to establish baseline IA conditions inside the building.
- Discussed holiday plant shutdown and plan for Installing soil borings, and Vapor Monitoring Points (VMPs) in the western aisleway of the MPA. During ISTR operations, it was explained that measurements from VMPs and thermocouples installed within the MPA will be collected manually.
- USEPA inquired of Gorm Heron (TRS Technical Director) about the TRS Group heater design and performance.
 - Mr. Heron commented that minor adjustments in spacing were made to the placement of the heater fans as provided in Addendum No. 1 to the RAWP and were made based on the 3-dimensional EVS model output and the point cloud survey of obstructions located within the FMR, including:
 - There will be an 18-foot max between heaters wells.
 - Reduced the heater bore hole from nine inches to six inches in diameter.
 - Replaced carbon steel casing with stainless steel casing to save space in the well and to improve the heat transfer performance of the TCH wells.
 - The improved efficiency and reduction of unnecessary energy imparted to the cold-pin section of the TRS heater design and further elimination of heating effects to the floor of the building
 - TRS shop testing of heaters in Indianapolis have been performed successfully.
- Ramboll reviewed pre-mobilization activities that are underway and that these activities can be seen and discussed during the site walk.
- Periodic reporting during the OU3 RA was reviewed.
 - Weekly and/or monthly reporting will be conducted to report on certain work activities being performed and to provide updates to Agencies during the various phases of the project.
 - Weekly reporting to be conducted during the beginning of the construction phase with the idea of switching to bi-weekly when appropriate.

- Discussed change management process and procedure as presented in the draft RAWP.
 - USACE acknowledged and agreed to change management plan and process.
 - Scott Tarmann (Ramboll Project Engineer) presented further detail on the change management plan and offered a couple examples of minor and major changes.
 - Major changes will require USEPA approval prior to commencement i.e. adding or eliminating heater wells.
 - Minor changes will be shared with the agencies as a notification but will not require prior approval i.e. modifying the angle of a heater or slight adjustment of location in the field.
- Rio Tinto explained management of document control through Aconex with invitations to this system to be sent to all USEPA and USACE personnel.
- The meeting adjourned at 11:40 AM, and personnel departed to conduct a walk over of the job site.
 - Onset of the site walk began with Michael Eddings reviewed PPE and safety requirements with everyone at the Ramboll site trailer.
 - Scott Tarmann demonstrated the Devi-alignment and Devi-flex survey tools that will be used to verify azimuth and angle of elevation of the drill borings and to verify the as-built alignment, length and elevation of all of the TCH well boring during the OU3 RA construction.
 - Additional Ramboll construction staff will be trained on use of these survey tool.
 - USACE inquired if regular calibration of these survey tools were required. Mr. Tarmann responded that such field calibration is not required per the manufacturer, and that Ramboll has access to manufacturer technicians should assistance with these survey instruments is needed
 - Site walk was conducted within the FMR
 - Pre-mobilization activities are schedule to begin on Monday 11/18/19 pending USEPA approval.
 - The high voltage electrical install design and schedule for installation of service with JCP&L was reviewed.
 - The group moved indoors and discussed the planned duct removal and HVAC modifications at the planned drilling locations
 - At the end or the tour, USEPA indicated they were completing final review of Addendum No. 2 and would be in contact regarding the Agency's decision in review of this submittal to enable the OU3 RA project to proceed.

1 Action Items

| Action Item | Initiation Date | Responsible Party | Proposed Completion Date |
|--|-----------------|-------------------|---|
| Establish IA vapor action level for triggering notification to Agency and Albéa during monitoring of Vapor Safe data | 11/15/19 | Ramboll | Spring 2020 following collection of baseline IA monitoring results and prior to ISTR system startup and initiation of heating of Group A heaters. |
| Develop meeting summary/ minutes | 11/15/19 | Ramboll | 11/27/2019 |
| Proposed time for Weekly Construction Meetings with USEPA and USACE | 11/15/19 | Ramboll | 11/27/2019 |
| Send out invitations to Aconex | 11/15/19 | Rio Tinto | 11/25/2019 |
| Provide a 2- to 4- week look ahead to USEPA for planning purposes | 11/15/19 | Ramboll | 11/27/2019 |